

12/17/96 TUE 12:32 FAX

P. 06

DEC-12-96 THU 14:32 GSHF

6. Charges for telecommunications service:

Is there a monthly charge? No ☐ Yes ☒If yes, how much is the charge? 84.00 per ISDN line = 252.00Is there a usage-based charge? No ☐ Yes ☒If yes, how much is the charge? based on when they pull it out of data based on deal with companyIs there a distance component (such as a per-mile fee) of the charge? No ☐ Yes ☒If yes, how much is the charge? If out of 60 mile Radius a long distance rateWas there an installation fee? No ☐ Yes ☒If yes, how much was the charge? \$1000.00Is the charge the regular tariffed rate, or is there a discount from the telecommunications provider? Tariffed ☐ Discount ☒If there is a discount, how much is it? 100 33¢ per minute pr

7. How does the project use telecommunications in the delivery of health care? (For example -- to send x-rays, distribute public health information, or perform video consultations. Please identify any occasional or episodic uses, such as might result from an outbreak of disease.)

Right now educational & meetings. But are looking to do medical consults.

DEC-12-96 THU 14:33 GSHF

P. 87

8. Could the project provide the services it is currently providing with less bandwidth? What effect would a lesser level of bandwidth have? (The implications of using greater or lesser levels of telecommunications services are related to image transmission time. What would the be the impact if the health care activities for which you now use telecommunications took twice as long, or if they could be completed in half the time?)

*The ~~band~~ bandwidth needs to be at 384 Kbps at least
And there are enough lines there for Medical Consults -
The admin meetings + educational sessions at 128KB work
but if cost was lowered could even go down further.*

9. What would the implications of having a greater level of bandwidth be?

*The bandwidth would increase the amount of ~~information~~
+ clarity & provide less interruptions. But needed at
a discounted rate.*

DEC-12-96 THU 14:33 GSHF

P. 08

10. Do you have e-mail? No ☒ Yes ☐ *Unsure*

11. Do you have Internet access? No ☐ Yes ☐ *Unsure*

If yes, do you incur long-distance charges by using it?

No ☐ Yes ☐

Please estimate your number of hours of Internet use per month:

12. If you have access to the Internet, please list any purposes other than e-mail (such as accessing databases such as Lexis/Nexis) for which you use it:

*Please
Call Me
at 605-
322-
6036
or pager
322-0324
If cannot
Reach*

Delores

12-17-96 07:42PM

Post-It Fax Note	7671	Date	12-18-96	# of pages	4
To	Cathy Wasen	From	Donna Hammack		
Co./Dept	ORHP	Co.	GSHF		
Phone #		Phone #	308-865-2700		
Fax #	301-443-2803	Fax #	308-865-2933		

Southwest Montana Telepsychiatry Network

St. Peter's Community Hospital

2475 Broadway

Helena, Montana 59601

Fax Cover Sheet**DATE:** 11-26-96**TO:** DONNA HAMMACK**FAX #:** 308 865 2933**FROM:** Jeff Folsom**PHONE:** (406) 447-2741**FAX:** (406) 444-2151**RE:** FCC QUESTIONS**Number of pages including cover sheet:** [4]**NOTE:**

I apologize for the delay. Original sent to FCC and will be recieved by the 19th!

12-17-96 07:42PM

F02



Behavioral Health Services of St. Peter's ♦ The Guardian Building
50 S. Last Chance Gulch, Suite 5, Helena, MT 59601 ♦ (406) 447-2800

December 17, 1996

Office of the Secretary
Federal Communications Commission
Room 222
1919 M, Northwest
Washington D.C.

Dear Secretary,

Please accept the attached responses to the 12 questions issued by the commission regarding universal service recommendations.

I represent the Southwest Montana Telepsychiatry Network based in Helena, Montana. With the support of the Office of Rural Health Policy, we have developed an interactive video network dedicated to increasing access to mental health services and education to Montana's rural and under-served population. We anticipate the commissions actions with regards to creating reasonable costs for rural healthcare via telecommunications technology will provide opportunity to continue and to expand our service to rural communities in Montana.

Thank you for your time and attention.

Respectfully Yours,

A handwritten signature in black ink, appearing to read "Jeffrey P. Folsom". The signature is fluid and cursive, with a long horizontal line extending to the right.

Jeffrey P. Folsom
Southwest Montana Telepsychiatry Network
2475 Broadway
Helena, Mt. 59601

12-17-96 07:42PM

P03

1. Name of Project: SOUTHWEST MONTANA TELEPSYCHIATRY NETWORK

2. Name of site: [All sites in Montana]

Boulder
 Warm Springs
 Bozeman
 Helena (2)
 Anaconda

3. Nearest City with population over 50,000:

Boulder: 116 miles
 Warm Springs: 100 miles
 Bozeman: 142 miles
 Helena: 90 miles
 Anaconda: 105 miles

4. Telecommunications Service provider: US West and AT&T

5. Level of service:

Boulder: T-1
 Warm Springs: T-1
 Bozeman: ISDN (384)
 Helena: T-1
 Anaconda:

6. Site	Monthly Charge	Usage Charge	Distance Charge	Installation Fee	Tariffed or Discount ?
Boulder	1201.00	60-90/hr.	?	1600.00	Tariffed
Warm Springs	1272.00	60-90/hr.	?	?	Tariffed
Bozeman	138.18	60-90/hr	?	900.00	Tariffed
Helena #1	482.31	60-90/hr.	?	1200.00	Tariffed
Helena #2	609.52	60-90/hr.	?	1200.00	Tariffed

Post-It™ brand fax transmittal memo 7671

of pages > 4

To	Dorinda Hammack	From	Loren Leonard
Co.		Co.	St. Lukes Midland
Dept.		Phone #	605-622-5037
Fax #		Fax #	605-622-5127

Note: Our proposed system is in the planning stage and has yet to be implemented

1. Name of project:

Dakota Health Network - Outreach Demonstration Grant

2. Please list each of the project's sites:

Name of Site:

State in which it is located:

St. Lukes Midland / SD Hand County Hospital / SD
Burdette Hospital / SD Selby Clinic / SD Ellendale Clinic / ND
Webster Hospital / SD Sisseton Hospital / SD
Indian Health Service Sisseton Hospital / SD

Please answer the following questions for each of your sites.
 Use additional sheets if necessary.

3. What is the nearest city of population equal to or greater than 50,000 in your state, and approximately how far are you from its boundary?

Miles Per Site

200 / 190 / 250 / 275

City: Sioux Falls SD Distance from city boundary: 150 / 150 / 152 / 152

4. Name of the project's telecommunications service provider:

U.S. West + Venture Communications

5. Level of telecommunications service the project is currently using: (For example, voice grade, 144 Kbps (ISDN), 384 Kbps, T-1 or equivalent)

Switch ISDN / 384

ST LUKES MIDLAND

12/17/96 12:07 605 622 5127
 DEC-16-96 MON 17:46 GSH

Post-It™ brand fax transmittal memo 7671		# of pages > 4
To	Donna Hamack	From Loren Leonard
Co.		Co. St. Lukes Midland
Dept.		Phone # 605-622-5037
Fax #		Fax # 605-622-5127

6. Charges for telecom

Is there a monthly charge? No ☐ Yes ☒ \$90 PER LINE
 If yes, how much is the charge? _____

Is there a usage-based charge? No ☐ Yes ☒ \$60 PER LINE
 If yes, how much is the charge? _____

Is there a distance component (such as a per-mile fee) of the charge? No ☒ Yes ☐
 If yes, how much is the charge? _____

Was there an installation fee? No ☐ Yes ☒
 If yes, how much was the charge? \$80 PER LINE

Is the charge the regular tariffed rate, or is there a discount from the telecommunications provider? Tariffed ☒ Discount ☐
 If there is a discount, how much is it? _____

7. How does the project use telecommunications in the delivery of health care? (For example -- to send x-rays, distribute public health information, or perform video consultations. Please identify any occasional or episodic uses, such as might result from an outbreak of disease.)

As noted Earlier our program is in the planning
stage and not yet implemented. When in place
we plan to: Send X RAYS, Staff Inservice,
Public Health Information, Video Consultations + Adminstr.
Conferences, Business DATA Transmission.

10. Do you have e-mail? No ☐ Yes ☒

11. Do you have Internet access? No ☐ Yes ☐

If yes, do you incur long-distance charges by using it?

No ☐ Yes ☐

Please estimate your number of hours of Internet use per month:

12. If you have access to the Internet, please list any purposes other than e-mail (such as accessing databases such as Lexis/Nexis) for which you use it:

Post-It™ brand fax transmittal memo 7671 # of pages 4

To <u>Dorinda Hammack</u>	From <u>Loren Leonard</u>
Co.	Co. <u>St. Lukes Midland</u>
Dept.	Phone # <u>605-622-5037</u>
Fax #	Fax # <u>605-622-5127</u>

Note: Our proposed system is in the planning stage and has yet to be implemented

1. Name of project:

Dakota Health Network - Outreach Demonstration Grant

2. Please list each of the project's sites:

Name of Site:	State in which it is located:
<u>St. Lukes Midland / SD</u>	<u>Hand County Hospital / SD</u>
<u>Burdle Hospital / SD</u>	<u>Selby Clinic / SD</u>
<u>Webster Hospital / SD</u>	<u>Ellendale Clinic / ND</u>
<u>Indian Health Service Sisseton Hospital / SD</u>	<u>Sisseton Hospital / SD</u>

Please answer the following questions for each of your sites.
Use additional sheets if necessary.

3. What is the nearest city of population equal to or greater than 50,000 in your state, and approximately how far are you from its boundary?

City: Sioux Falls SD Distance from city boundary: 150 / 150 / 152 / 152

miles per site
200 / 190 / 250 / 275

4. Name of the project's telecommunications service provider:

U.S. West + Venture Communications

5. Level of telecommunications service the project is currently using: (For example, voice grade, 144 Kbps (ISDN), 384 Kbps, T-1 or equivalent)


Switch ISDN / 384

SIoux VALLEY HOSPITAL

Facsimile Transmittal Cover Sheet

DATE: December 17, 1996

TO: Donna Hammack
Good Samaritan Hospital Foundation
Fax: 308/865-2933

FROM: Mary DeVany 
Telemedicine Coordinator
Sioux Valley Hospital
1100 South Euclid
Sioux Falls, SD 57105
Phone: (605) 333-7192
Fax: (605) 333-1419
E-Mail: mdevany@charlie.usd.edu

Total Pages Transmitted: 10 (plus a cover sheet)

If transmission problems occur, call (605) 333-7193

REMARKS: Here are my responses to the twelve questions posed in the first fax. I do have a couple other questions, so I will try to give you a call this afternoon yet. Talk to you soon. Thanks!

QUESTIONS TO ADDRESS:

1. Name of Project: *Sioux Valley Health System Telemedicine Network*
2. Please list each of the project's sites: *Sioux Valley Hospital, Sioux Falls, SD
Dakota Medical Center, Vermillion, SD
Canton-Inwood Memorial Hospital, Canton, SD
Pioneer Memorial Hospital, Viborg, SD
Mid-Dakota Hospital, Chamberlain, SD
Lake Area Hospital, Webster, SD
Worthington Regional Hospital, Worthington, MN*

Please answer the following questions for each of your sites:

SITE: *Sioux Valley Hospital, Sioux Falls, SD (hub)*

3. What is the nearest city of population equal to or greater than 50,000 in your state, and approximately how far are you from its boundary?

City: *Sioux Falls, SD*

Distance from city boundary: *-0-*

4. Name of the project's telecommunications service provider:

US West Communications (local) and AT&T (interstate long distance & T1 usage)

5. Level of telecommunications service the project is currently using: (voice grade, ISDN, 384 Kbps, T-1 or equivalent) *Switched 56, ISDN (up to 384 Kbps), T-1*

6. Charges for telecommunications service:

Is there a monthly charge?

No ☒ Yes

If yes, how much is the charge?

ISDN-\$84/line; T-1-\$5 for months with no use

Is there a usage-based charge?

No ☒ Yes

If yes, how much is the charge?

Long distance only: ~\$20/line/hour

Is there a distance component (such as a per-mile fee) of the charge?

☒ No Yes

If yes, how much is the charge?

Was there an installation fee?

No ☒ Yes

If yes, how much was the charge?

Switched 56--\$300; ISDN-\$85/line; T-1-\$555

Is the charge the regular tariffed rate, or is there a discount from the telecommunications provider?

Tariffed ☒ Discount

If there is a discount, how much is it? *Based on usage-5%-15%(AT&T); 15%(USWest)*

7. How does the project use telecommunications in the delivery of health care? (For example--to send x-rays, distribute public health information, or perform video consultations. Please identify any occasional or episodic uses, such as might result from an outbreak of disease.)

Receive x-rays, staff educational activities, patient video consultations, build continuity between departments at various system facilities, pediatric home care staff consultations, live radiology studies(barium studies).

8. Could the project provide the services it is currently providing with less bandwidth? What effect would a lesser level of bandwidth have? (The implications of using greater or lesser levels of telecommunications services are related to image transmission time. What would be the impact if the health care activities for which you now use telecommunications took twice as long, or if they could be completed in half the time?)

Probably not--the voice/motion lag would be too distracting for use as an educational tool (128 Kbps) or for patient consults (384 Kbps) at the slower speeds. Also, receiving x-ray images could not be done at a slower speed (Switched 56) since the slower lines have a tendency to cause a bottleneck at the receive site, frustrating the radiologists.

9. What would the implications of having a greater level of bandwidth be? *Radiology images could be received quicker, video quality would be smoother.*

10. Do you have e-mail? No Yes

11. Do you have Internet access? No Yes

If yes, do you incur long-distance charges by using it? No Yes

Please estimate your number of hours of Internet use per month: 10 hours

12. If you have access to the Internet, please list any purposes other than e-mail (such as accessing databases such as Lexis/Nexis) for which you use it:

Access Telemedicine Gateway, TIE, misc. information searches, etc.

SITE: *Dakota Medical Center, Vermillion, SD*

3. What is the nearest city of population equal to or greater than 50,000 in your state, and approximately how far are you from its boundary?

City: *Sioux Falls, SD*

Distance from city boundary: *55 miles*

4. Name of the project's telecommunications service provider: *U S West Communications (local) and AT&T (long distance)*

5. Level of telecommunications service the project is currently using: (voice grade, ISDN, 384 Kbps, T-1 or equivalent) *Switched 56, ISDN (up to 384 Kbps)*

6. Charges for telecommunications service:

Is there a monthly charge?

No

☒ Yes

If yes, how much is the charge?

ISDN-\$84; Switched 56-- ~\$60/month (1 \$56 line)

Is there a usage-based charge?

No

☒ Yes

If yes, how much is the charge?

Long distance only: ~\$18/line/hour(ISDN);
~5.02/minute (\$56)

Is there a distance component (such as a per-mile fee) of the charge?

☒ No

Yes

If yes, how much is the charge?

Was there an installation fee?

No

☒ Yes

If yes, how much was the charge?

Switched 56-- ~\$300; ISDN-\$85/line

Is the charge the regular tariffed rate, or is there a discount from the telecommunications provider?

Tariffed

☒ Discount

If there is a discount, how much is it? Discount is based on long distance usage (5-15%)--ISDN

7. How does the project use telecommunications in the delivery of health care? (For example--to send x-rays, distribute public health information, or perform video consultations. Please identify any occasional or episodic uses, such as might result from an outbreak of disease.)

Send x-rays, staff educational activities, patient video consultations, departmental meetings.

8. Could the project provide the services it is currently providing with less bandwidth? What effect would a lesser level of bandwidth have? (The implications of using greater or lesser levels of telecommunications services are related to image transmission time. What would be the impact if the health care activities for which you now use telecommunications took twice as long, or if they could be completed in half the time?)

Probably not--the voice/motion lag would be too distracting for use as an educational tool (128 Kbps) or for patient consults (384 Kbps) at the slower speeds. This facility conducts live radiology consultations (barium swallows) via interactive video and the higher rate of speed is important (384 Kbps or higher). Also, the transmission of x-rays could not be done at a slower speed (Switched 56) since the slower lines have a tendency to cause a bottleneck at the receive site.

9. What would the implications of having a greater level of bandwidth be? *images could be received quicker, video quality would be smoother.*

10. Do you have e-mail?

☒ No

Yes

11. Do you have Internet access?

☒ No

Yes

If yes, do you incur long-distance charges by using it?

No

Yes

Please estimate your number of hours of Internet use per month:

12. If you have access to the Internet, please list any purposes other than e-mail (such as accessing databases such as Lexis/Nexis) for which you use it:

SITE: *Pioneer Memorial Hospital, Viborg, SD*

3. What is the nearest city of population equal to or greater than 50,000 in your state, and approximately how far are you from its boundary?

City: *Sioux Falls, SD*

Distance from city boundary: *45 miles*

4. Name of the project's telecommunications service provider: *U S West Communications (local) and AT&T (long distance)*

5. Level of telecommunications service the project is currently using: (voice grade, ISDN, 384 Kbps, T-1 or equivalent) *Switched 56*

6. Charges for telecommunications service:

Is there a monthly charge? No ☒ Yes
If yes, how much is the charge? *~ \$60/month (1 56 line)*

Is there a usage-based charge? No ☒ Yes
If yes, how much is the charge? *~ \$.02/minute*

Is there a distance component (such as a per-mile fee) of the charge? ☒ No Yes
If yes, how much is the charge?

Was there an installation fee? No ☒ Yes
If yes, how much was the charge? *Switched 56-- ~ \$450; ISDN--\$85/line*

Is the charge the regular tariffed rate, or is there a discount from the telecommunications provider?
Tariffed Discount

If there is a discount, how much is it? *Uncertain*

7. How does the project use telecommunications in the delivery of health care? (For example--to send x-rays, distribute public health information, or perform video consultations. Please identify any occasional or episodic uses, such as might result from an outbreak of disease.)
Send x-rays, patient consultations

8. Could the project provide the services it is currently providing with less bandwidth? What effect would a lesser level of bandwidth have? (The implications of using greater or lesser levels of telecommunications services are related to image transmission time. What would be the impact if

the health care activities for which you now use telecommunications took twice as long, or if they could be completed in half the time?)

The transmission of x-rays could not be done at a slower speed (Switched 56) since the slower lines has a tendency to cause a bottleneck at the receive site, frustrating the radiologists.

9. What would the implications of having a greater level of bandwidth be? *images could be received quicker.*

10. Do you have e-mail? ☒ No ☐ Yes

11. Do you have Internet access? ☒ No ☐ Yes

If yes, do you incur long-distance charges by using it? ☐ No ☐ Yes

Please estimate your number of hours of Internet use per month:

12. If you have access to the Internet, please list any purposes other than e-mail (such as accessing databases such as Lexis/Nexis) for which you use it:

SITE: **Canton-Inwood Memorial Hospital, Canton, SD**

3. What is the nearest city of population equal to or greater than 50,000 in your state, and approximately how far are you from its boundary?

City: *Sioux Falls, SD*

Distance from city boundary: *25 miles*

4. Name of the project's telecommunications service provider: *U S West Communications (local) and AT&T (long distance)*

5. Level of telecommunications service the project is currently using: (voice grade, ISDN, 384 Kbps, T-1 or equivalent) *Switched 56*

6. Charges for telecommunications service:

Is there a monthly charge? ☐ No ☒ Yes
If yes, how much is the charge? *~ \$60/month (1 56 line)*

Is there a usage-based charge? ☐ No ☒ Yes
If yes, how much is the charge? *~ \$.02/minute*

Is there a distance component (such as a per-mile fee) of the charge? ☒ No ☐ Yes
If yes, how much is the charge?

Was there an installation fee? No Yes
If yes, how much was the charge? Switched 56-- \$300

Is the charge the regular tariffed rate, or is there a discount from the telecommunications provider?
Tariffed Discount
If there is a discount, how much is it? Uncertain

7. How does the project use telecommunications in the delivery of health care? (For example--to send x-rays, distribute public health information, or perform video consultations. Please identify any occasional or episodic uses, such as might result from an outbreak of disease.)
Send x-rays, patient consultations

8. Could the project provide the services it is currently providing with less bandwidth? What effect would a lesser level of bandwidth have? (The implications of using greater or lesser levels of telecommunications services are related to image transmission time. What would be the impact if the health care activities for which you now use telecommunications took twice as long, or if they could be completed in half the time?)
The transmission of x-rays could not be done at a slower speed (Switched 56) since the slower lines has a tendency to cause a bottleneck at the receive site, frustrating the radiologists.

9. What would the implications of having a greater level of bandwidth be? *images could be received quicker.*

10. Do you have e-mail? No Yes

11. Do you have Internet access? No Yes

If yes, do you incur long-distance charges by using it? No Yes

Please estimate your number of hours of Internet use per month:

12. If you have access to the Internet, please list any purposes other than e-mail (such as accessing databases such as Lexis/Nexis) for which you use it:

SITE: **Mid-Dakota Hospital, Chamberlain, SD**

3. What is the nearest city of population equal to or greater than 50,000 in your state, and approximately how far are you from its boundary?

City: *Sioux Falls, SD*

Distance from city boundary: *150 miles*

4. Name of the project's telecommunications service provider: *U S West Communications (local) and AT&T (long distance)*

5. Level of telecommunications service the project is currently using: (voice grade, ISDN, 384 Kbps, T-1 or equivalent) *Switched 56, ISDN (up to 384 Kbps)*

6. Charges for telecommunications service:

Is there a monthly charge? No Yes
If yes, how much is the charge? *ISDN - \$84/line (4 lines)*

Is there a usage-based charge? No Yes
If yes, how much is the charge? *Long Distance only: ~\$20/hour/line*

Is there a distance component (such as a per-mile fee) of the charge? No Yes
If yes, how much is the charge?

Was there an installation fee? No Yes
If yes, how much was the charge? *ISDN-\$85/line (4 lines)*

Is the charge the regular tariffed rate, or is there a discount from the telecommunications provider?
Tariffed Discount

If there is a discount, how much is it? *Discount is based on long distance usage (5-15%)—ISDN*

7. How does the project use telecommunications in the delivery of health care? (For example--to send x-rays, distribute public health information, or perform video consultations. Please identify any occasional or episodic uses, such as might result from an outbreak of disease.)

Send x-rays, staff educational activities, patient video consultations, departmental and medical staff meetings.

8. Could the project provide the services it is currently providing with less bandwidth? What effect would a lesser level of bandwidth have? (The implications of using greater or lesser levels of telecommunications services are related to image transmission time. What would be the impact if the health care activities for which you now use telecommunications took twice as long, or if they could be completed in half the time?)

Probably not--the voice/motion lag would be too distracting for use as an educational tool (128 Kbps) or for patient consults (384 Kbps) at the slower speeds. The transmission of x-rays could be done at a slower speed (Switched 56), however, the slower lines has a tendency to cause a bottleneck at the receive site.

9. What would the implications of having a greater level of bandwidth be? *images could be received quicker, video quality would be smoother.*

10. Do you have e-mail? No Yes

11. Do you have Internet access? ☒ No ☐ Yes
If yes, do you incur long-distance charges by using it? ☐ No ☐ Yes
Please estimate your number of hours of Internet use per month:

12. If you have access to the Internet, please list any purposes other than e-mail (such as accessing databases such as Lexis/Nexis) for which you use it:

SITE: *Lake Area Hospital, Webster, SD*

3. What is the nearest city of population equal to or greater than 50,000 in your state, and approximately how far are you from its boundary?

City: *Sioux Falls, SD*

Distance from city boundary: *120 miles*

4. Name of the project's telecommunications service provider: *Interstate Telecommunications Company (local) and AT&T (long distance)*

5. Level of telecommunications service the project is currently using: (voice grade, ISDN, 384 Kbps, T-1 or equivalent) *ISDN (up to 384 Kbps)*

6. Charges for telecommunications service:

Is there a monthly charge? ☐ No ☒ Yes
If yes, how much is the charge? *Final data not available--installation in progress*

Is there a usage-based charge? ☐ No ☒ Yes
If yes, how much is the charge? *Final data not available--installation in progress*

Is there a distance component (such as a per-mile fee) of the charge? ☒ No ☐ Yes
If yes, how much is the charge?

Was there an installation fee? ☐ No ☒ Yes
If yes, how much was the charge? *Final data not available--installation in progress*

Is the charge the regular tariffed rate, or is there a discount from the telecommunications provider?
Tariffed ☐ Discount ☐
If there is a discount, how much is it? *Unknown at this time.*

7. How does the project use telecommunications in the delivery of health care? (For example--to send x-rays, distribute public health information, or perform video consultations. Please identify any occasional or episodic uses, such as might result from an outbreak of disease.)
Facility just coming on-line--no activity to date

8. Could the project provide the services it is currently providing with less bandwidth? What effect would a lesser level of bandwidth have? (The implications of using greater or lesser levels of telecommunications services are related to image transmission time. What would be the impact if the health care activities for which you now use telecommunications took twice as long, or if they could be completed in half the time?)

Facility just coming on-line—no activity to date

9. What would the implications of having a greater level of bandwidth be?

Facility just coming on-line—no activity to date

10. Do you have e-mail?

☒ No ☐ Yes

11. Do you have Internet access?

☒ No ☐ Yes

If yes, do you incur long-distance charges by using it? ☐ No ☐ Yes

Please estimate your number of hours of Internet use per month:

12. If you have access to the Internet, please list any purposes other than e-mail (such as accessing databases such as Lexis/Nexis) for which you use it:

SITE: *Worthington Regional Hospital, Worthington, MN*

3. What is the nearest city of population equal to or greater than 50,000 in your state, and approximately how far are you from its boundary?

City: *Sioux Falls, SD*

Distance from city boundary: *60 miles*

4. Name of the project's telecommunications service provider: *Frontier Communications (local) and AT&T (long distance)*

5. Level of telecommunications service the project is currently using: (voice grade, ISDN, 384 Kbps, T-1 or equivalent) *Switched 56 (7 lines for up to 392 Kbps)*

6. Charges for telecommunications service:

Is there a monthly charge?

No ☒ Yes

If yes, how much is the charge?

\$48.54/line (7-Switched 56 lines)

Is there a usage-based charge?

No ☒ Yes

If yes, how much is the charge?

Final data not available—installation in progress

Is there a distance component (such as a per-mile fee) of the charge?

☒ No ☐ Yes

If yes, how much is the charge?

Was there an installation fee? No ☒ Yes
If yes, how much was the charge? \$33.70/line + labor (Installation in progress)

Is the charge the regular tariffed rate, or is there a discount from the telecommunications provider?
Tariffed Discount
If there is a discount, how much is it? Unknown at this time.

7. How does the project use telecommunications in the delivery of health care? (For example--to send x-rays, distribute public health information, or perform video consultations. Please identify any occasional or episodic uses, such as might result from an outbreak of disease.)
Facility just coming on-line--no activity to date

8. Could the project provide the services it is currently providing with less bandwidth? What effect would a lesser level of bandwidth have? (The implications of using greater or lesser levels of telecommunications services are related to image transmission time. What would be the impact if the health care activities for which you now use telecommunications took twice as long, or if they could be completed in half the time?)
Facility just coming on-line--no activity to date

9. What would the implications of having a greater level of bandwidth be?
Facility just coming on-line--no activity to date

10. Do you have e-mail? ☒ No ☐ Yes

11. Do you have Internet access? ☒ No ☐ Yes
If yes, do you incur long-distance charges by using it? No Yes
Please estimate your number of hours of Internet use per month:

12. If you have access to the Internet, please list any purposes other than e-mail (such as accessing databases such as Lexis/Nexis) for which you use it:

TELEMEDICINE USER SURVEY

1. Name of project:

Bassett Healthcare Telemedicine Network

1 Atwell Road, Cooperstown, NY 13326 (hub hospital for this project)

2. Please list each of the project's sites:

Name of Site:

State in which it is located:

{ Table 1

See attached spreadsheet. All sites are located in the State of New York.

Please answer the following questions for each of your sites. Use additional sheets if necessary. See spreadsheet for answers to questions 3, 4, 5, 6 (for Question 6 - There is NO distance component charged at any site); See Table 2 for explanation of Tariffs.

3. What is the nearest city of population equal to or greater than 50,000 in your state, and approximately how far are you from its boundary? see Table 1 (also a map is provided in the response to the FCC)

City: _____ Distance from city boundary: _____

4. Name of the project's telecommunications service provider

See Table 1

5. Level of telecommunications service the project is currently using: (For example: voice grade, 144 Kbps (ISDN), 384 Kbps, T-1 or equivalent, or higher rate)

See Table 1

6. Charges for telecommunications service:

Is there a monthly charge? No _____ Yes x

If yes, how much is the charge? see Table 1

we are still charged for a full 11 by AT&T because we cannot get a telephone
case (see Table 1)

**Comments Regarding Universal Service CC: Docket No. 96-45
Good Samaritan Health Systems for the Mid-Nebraska Telemedicine Network
Kearney, Nebraska 68847**

**Contact: Donna Hammack
Good Samaritan Hospital Foundation
Box 1810
Kearney, NE 68848-1810**

Questions to Address:

1. Name of project: Mid-Nebraska Telemedicine Network
2. Please list each of the project's sites:

Name of Site:	State in which it is located:
Broken Bow	Nebraska
Callaway	Nebraska
Cambridge	Nebraska
Cozad	Nebraska
Sargent	Nebraska
Norton	Kansas
Phillipsburg	Kansas
Kearney	Nebraska
Good Samaritan Hospital	
Richard Young Hospital	

Please answer the following questions for each of your sites. Use additional sheets if necessary. Responses will take into account each of the sites.

3. What is the nearest city of population equal to or greater than 50,000 in your state, and approximately how far are you from its boundary?

City: Lincoln Distance from city boundary: 120-200 miles (same city for each of the sites; distance range varies).

The difference in telecommunications charges between urban and rural is illustrated by two points at the greatest distance possible within the city of Omaha connected by T1 service incur a charge of \$633, while two points connected within the Mid-Nebraska Telemedicine Network incur a cost of approximately \$2,000.

4. Name of the project's telecommunications service provider: AT&T
5. Level of telecommunications service the project is currently using: (For example, voice grade, 144 Kbs (ISDN), 384 Kbps, T-1 or equivalent)
T-1 = 1.54 Mbps

6. Charges for telecommunications service:

Is there a monthly charge? No ☐ Yes ☒

If yes, how much is the charge? 6 - T-1's = \$11,500/month (excluding tax) for the network

3 - BRI's Norton = \$370.20/month

3 - BRI's Kearney = \$90/month

Is there a usage-based charge? No ☒ Yes ☐

If yes, how much is the charge? No on T-1's, Yes on BRI, .04/minute over 10 hours plus long distance hook-up charge.

Is there a distance component (such as a per-mile fee) of the charge? No ☐ Yes ☒

If yes, how much is the charge? T-1's are based on state tariff which is mileage and cost dependent. BRI's are switched; calls outside the local exchange are subject to long distance charges.

Was there an installation fee? No ☐ Yes ☒

If yes, how much was the charge? Waived with multiyear contract.

Is the charge the regular tariffed rate, or is there a discount from the telecommunications provider? Tariffed ☐ Discount ☒

If there is a discount, how much is it? \$4,000-5,000

7. How does the project use telecommunications in the delivery of health care? (For example -- to send x-rays, distribute public health information, or perform video consultations. Please identify any occasional or episodic uses, such as might result from an outbreak of disease.)

The Mid-Nebraska Telemedicine Network has three primary uses, which support the mission statement in no. 8:

1. Video Consultation
2. Educational Programs
3. Administrative Meetings

8. Could the project provide the services it is currently providing with less bandwidth? What effect would a lesser level of bandwidth have? (The implications of using greater or lesser levels of telecommunications services are related to image transmission time. What would be the impact if the health care activities for which you now use telecommunications took twice as long, or if they could be completed in half the time?

The services provided through the Mid-Nebraska Telemedicine Network are consistent with the stated mission: "The mission of the Mid-Nebraska Telemedicine Network is to develop a flexible multi-use system that will improve access to quality care by providing consultation and treatment in both routine and emergency situations

and increase educational opportunities for both providers and the community. The thrust of the network's programmatic development has been clinical during the first year, and presently educational and administrative uses are increasing rapidly.

As of this week, 500 clinical consultations have taken place in twenty-one different specialties. Of these, leading uses have been psychiatry, speech pathology and medical oncology. Patients have indicated that: for mental health consultations the easy-access has improved their compliance in obtaining therapy and the technology became "transparent" in the provision of services; stroke patients have received rehabilitative work they simply would not have had with no speech therapist in their home community; and oncology patients can remain close to home for care and have the benefit of seeing their primary care physician and their specialist at the same time.

The efficacy of the technology is verified by the evaluative information collected during each visit. Ninety-seven percent of the patients seen over Telemedicine were satisfied with the Telemedicine visit and indicated that their ability to explain their problem to the doctor "on tv" compared to a face-to-face visit was either the same or even better (in 19%) of the cases. All patients indicated that their perception of the quality of the medical treatment was either the same or better (23%) than an actual face-to-face encounter. Both remote providers and specialists indicated a high level of satisfaction with Telemedicine visits. All remote providers indicated they would use Telemedicine again, and 99% of the specialists indicated they would continue.

Video can be sent at rates as low as 56 Kbit/sec, but it has definite flaws in color, sharpness and motion, which are all unacceptable for many types of consultations. A significant number of consultations conducted at the Mid-Nebraska Telemedicine Network (using T1 or 1.54 Mbps) are speech therapy: this is an example of a particular application that may be more difficult at a lower bandwidth. Video compressed at lower bandwidth results in synchronization delay between speech and mouth movement. Another example of a potential difficulty in assessing an individual's movement, such as in the diagnosis of a patient with Parkinson's Disease, when watching for more subtle motion is very important. Less bandwidth decreases video (dynamic) resolution and motion handling capabilities. Higher quality communications is directly related to usefulness and variety of functions.

9. What would the implications of having a greater level of bandwidth be?

T1 transmission of 1.54 Mbps is adequate for any of the healthcare applications we presently envision.

Higher bandwidth greater than 1.54 Mbps could virtually eliminate need for compression (codec). In certain situations, such as the transfer of medical images, such as x-rays, which are transmitted using digitized uncompressed images, the time requirement for transmission over a 14.4 kbps modem would be approximately seven hours--too long to receive information in a timely manner. T1 capability provides